

# PATENT ABSTRACTS OF JAPAN

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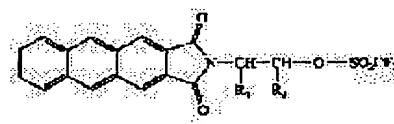
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(54) NEW COMPOUND, ITS PRODUCTION AND REAGENT COMPRISING THE COMPOUND AND USED FOR SEPARATING OPTICAL ISOMER OF ASYMMETRIC CARBON ATOM-CONTAINING CARBOXYLIC ACID OR ITS SALT

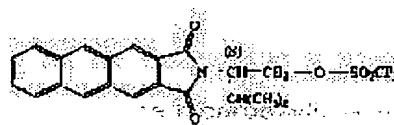
(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new compound useful as a reagent capable of highly sensitively separating the optical isomer of an asymmetric carbon-containing carboxylic acid or its salt, such as beraprost sodium salt.



I

SOLUTION: This new compound is represented by formula I (R1 is a 1-6C alkyl, benzyl, H; R2 is a 1-6C alkyl, H; therein, either of R1 and R2 is H, but R1 and R2 are each simultaneously not H), e.g. a compound of formula II. The compound of formula I is obtained by reacting 2,3-anthracene dicarboxylic acid anhydride with an optically active amino alcohol of formula III and subsequently reacting the reaction product with trifluoromethane sulfonic acid anhydride. The employment of the reagent enables to highly sensitively carry out the separation of the optical isomer of an asymmetric carbon-containing carboxylic acid requiring complicated operations in simple operations and in good repeatability, thus enabling to determine various optical isomers. The compound of formula I can therefore contribute to research the actions of the optical isomers of various kinds of carboxylic acids in living bodies, etc.



II



III

LEGAL STATUS

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